

FIDELITY MONITOR & INSIGHT

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MESSAGE FROM JACK

Contrarian Thoughts On Energy

Some investors are under the mistaken impression that electricity costs today are higher than they've ever been. In reality, inflation-adjusted power prices have been on a declining trend for more than a century, and when household efficiency gains are taken into account, the comparison is eye-opening: Adjusted for inflation, the cost of a kilowatt-hour in 1922 comes out to roughly \$1.75 in 2022 dollars. That compares with the current U.S. average of 12 cents. Illuminating a house with four 100-watt incandescent bulbs during a typical winter evening in 1923 would have set you back the equivalent of \$2.80, but today, using modern LED bulbs, the same illumination would run you about 2.8 cents.



Jack Bowers

Many would argue that trying to make the grid renewable could reverse that trend, but that's highly unlikely. Photovoltaic solar and wind, even when paired with industrial battery storage to make them 24-hour sources, are currently the lowest-cost (and fastest-growing) source of new generation. That's why renewable power sources have grown to 40% of total kilowatt-hours delivered on the U.S. grid (as of 2021).

Getting the grid 80% renewable (the next 40%) will take substantial capital investment, but probably won't boost rates because once the capital equipment is installed there is little or no ongoing fuel cost. And it could happen much faster than the first 40% did — perhaps less than 20 years.

Utility-scale battery storage will likely play a key role, because renewable power that can be stored at night (when demand is low) eliminates the need for additional capacity during peak daytime hours. Repurposing idle coal plants (so that boilers can run on deep geothermal or nuclear fusion) may also play a significant role in the late 2030s. But almost any way it happens, the cost of electricity — relative to inflation — will likely remain on a long-term declining trend.

Some worry that if transportation goes electric, causing demand to jump, the result will be rolling blackouts and surging electricity prices. But that's not likely, even

Jack's Message *cont'd on page 11*

MARKET OUTLOOK

Markets Have Priced-in Soft Landing And Peak Inflation

Last month's inflation news was cheered by stock and bond investors alike. As mentioned in *Fund Commentary*, the dramatic drop in October's CPI surprised almost everyone, perhaps even the Fed's rate-setting (FOMC) committee.

As it happens, things had gotten pretty expensive, such as used cars and trucks, health care, clothes, airline tickets and especially housing. Each category plowed head-first into consumers whose wages aren't keeping pace with rising food, fuel, car insurance, and other costs. Free markets being what they are, landlords and others pulled back, and home prices have been falling.

Of course, many other forces are influencing inflation and the global economy, including two that defy forecasting: China's battle with Covid and Putin's war on Ukraine. In any event, the last two months of market gains (which have driven the S&P 500 up almost 14%) certainly suggest a degree of optimism that didn't exist as recently as September. That month, as you may recall, the S&P tumbled 9%, and had lost nearly a quarter of its value through the third quarter.

What else has changed apart from easing inflation concerns and the Fed's hawkishness? The answer is renewed optimism over the economy's strength. Just as forecasters have been wrong about inflation, they've also been wrong about GDP growth. Having surprised everyone with an initial growth estimate of 2.6%, the revised estimate shows the U.S. economy growing at an annualized rate of 2.9% last quarter. That stands in sharp contrast to 2022's first- and second-quarter GDP contractions of -1.6% and -0.6%, respectively.

While it's yet to be seen that third-quarter's growth is sustainable, not all investors applauded the initial data. After all, if the economy is growing, that suggests to some that the Fed will have to maintain its rate hikes into 2023. Indeed, before Powell's November 30 speech, he suggested that the FOMC may be looking for signs of stress in the labor market and, therefore the economy, before it alters its rate-setting policy.

Market Outlook *cont'd on page 3*

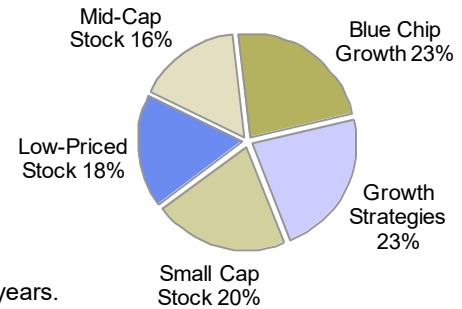
Unique Opportunities Target Risk: 1.20 (Current: 1.11) Foreign Holdings: 11.1% **YTD Return: -16.3%**

Stocks: 97.1% Bonds: 0.0% Cash: 2.9% Alternatives*: 0.0% Yield: 0.3%

Holdings	Ticker	NAV	Shares	Value	Nov Ret
Blue Chip Growth	FBGRX	\$124.34	1,694.34	\$210,674	5.1%
Growth Strategies	FDEGX	49.88	4,136.17	206,312	5.8
Small Cap Stock	FSLCX	15.14	12,216.42	184,957	2.2
Low-Priced Stock	FLPSX	48.56	3,295.25	160,017	6.6
Mid-Cap Stock	FMCSX	39.48	3,600.17	142,135	4.6

Current Value (3/31/99 = \$100,000) **\$904,095** **4.9%**

For aggressive members who have no need for income or principal for more than 10 years.



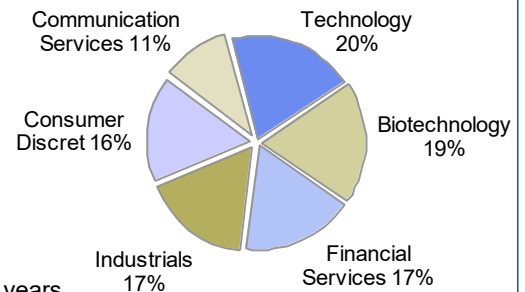
Select Target Risk: 1.20 (Current: 1.08) Foreign Holdings: 4.2% **YTD Return: -18.4%**

Stocks: 97.9% Bonds: 0.0% Cash: 2.1% Alternatives*: 0.0% Yield: 0.0%

Holdings	Ticker	NAV	Shares	Value	Nov Ret
Technology	FSPTX	\$19.53	63,915.92	\$1,248,278	5.6%
Biotechnology	FBIOX	16.53	73,727.84	1,218,721	3.1
Financial Services	FIDSX	12.06	91,798.57	1,107,091	4.5
Industrials	FCYIX	30.21	35,359.25	1,068,203	6.1
Consumer Discret	FSCPX	47.06	21,982.32	1,034,488	3.9
Communication Services	FBMPX	60.39	11,248.73	679,311	6.9

Current Value (12/31/88 = \$100,000) **\$6,356,091** **4.9%**

For aggressive members who have no need for income or principal for more than 10 years.



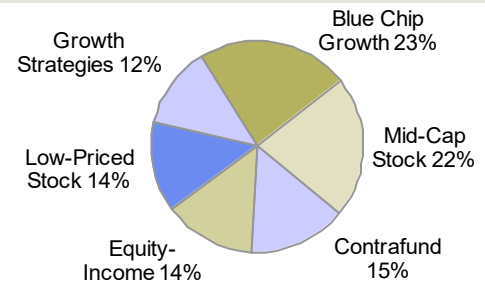
Growth Target Risk: 1.00 (Current: 1.04) Foreign Holdings: 13.3% **YTD Return: -16.2%**

Stocks: 96.6% Bonds: 0.0% Cash: 3.3% Alternatives*: 0.0% Yield: 0.7%

Holdings	Ticker	NAV	Shares	Value	Nov Ret
Blue Chip Growth	FBGRX	\$124.34	8,472.03	\$1,053,412	5.1%
Mid-Cap Stock	FMCSX	39.48	24,846.15	980,926	4.6
Contrafund	FCNTX	14.09	48,092.81	677,628	5.2
Equity-Income	FEQIX	68.30	9,476.36	647,236	5.7
Low-Priced Stock	FLPSX	48.56	12,896.98	626,277	6.6
Growth Strategies	FDEGX	49.88	11,287.83	563,037	5.8

Current Value (12/31/86 = \$100,000) **\$4,548,516** **5.4%**

For moderately aggressive members who want equity-dominated portfolios and have no income needs for at least 10 years.



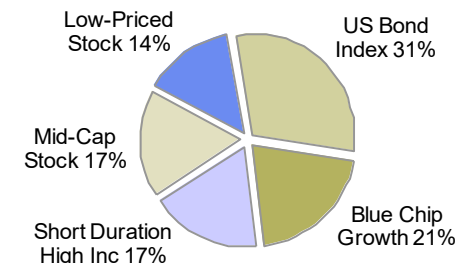
Growth & Income Target Risk: 0.66 (Current: 0.66) Foreign Holdings: 13.8% **YTD Return: -14.4%**

Stocks: 50.5% Bonds: 30.2% Cash: 3.5% Alternatives*: 15.9% Yield: 2.8%

Holdings	Ticker	NAV	Shares	Value	Nov Ret
US Bond Index	FXNAX	\$10.27	28,555.84	\$293,268	3.8%
Blue Chip Growth	FBGRX	124.34	1,605.61	199,641	5.1
Short Duration High Inc	FSAHX	8.62	19,481.76	167,933	1.3
Mid-Cap Stock	FMCSX	39.48	4,150.28	163,853	4.6
Low-Priced Stock	FLPSX	48.56	2,857.15	138,743	6.6

Current Value (12/31/93 = \$100,000) **\$963,438** **4.2%**

A good choice for members retiring in 5-10 years looking for less volatility than the market.



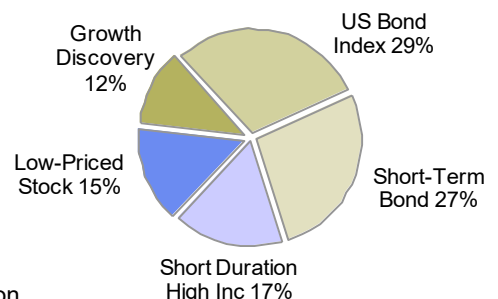
Income Target Risk: 0.33 (Current: 0.38) Foreign Holdings: 17.0% **YTD Return: -9.5%**

Stocks: 25.3% Bonds: 56.1% Cash: 3.0% Alternatives*: 15.6% Yield: 3.7%

Holdings	Ticker	NAV	Shares	Value	Nov Ret
US Bond Index	FXNAX	\$10.27	13,311.25	\$136,707	3.8%
Short-Term Bond	FSHBX	8.20	15,244.22	125,003	1.0
Short Duration High Inc	FSAHX	8.62	9,173.85	79,079	1.3
Low-Priced Stock	FLPSX	48.56	1,391.30	67,562	6.6
Growth Discovery	FDSVX	43.53	1,231.14	53,592	5.3

Current Value (12/31/91 = \$100,000) **\$461,941** **3.2%**

For members needing income and protection of their purchasing power against inflation.



But all that changed on November 30 when he signaled that a half-point hike this month was now more likely. Indeed, the Fed's closely watched "core" PCE inflation gauge fell in October, making a slower rate of hikes a near-certainty.

On the other hand, what are they to do if the economy keeps growing but price pressures continue to ease because past rate-hikes are, in fact, having their desired effect?

Indeed, it's hard to argue that they are not. Just look at homebuilding. In October, housing starts fell by 4.2% to a seasonally adjusted annual rate of 1.43 million units. And, if you drill a bit deeper, single-family housing starts (whose buyers are often younger, first-time homeowners) fared far worse: starts tumbled 6.1%.

So if things are so terrible in that sector, why did **Select Construction & Housing** gain 8.4% in October and almost as much in November?

Despite mortgage interest rates doubling to over 8% this year, employment levels remain at record highs. Also, record-high rents still make home ownership a better financial decision.

Earnings are also worth mentioning.

The third quarter saw corporate profit growth slow, but not as much as many analysts had forecast. Moreover, many companies indicated that they have so far been successful in passing along price increases, though there's concern if that can continue. And here's one other worthy tidbit: 25% fewer corporate chieftains used the term "recession" during their third-quarter earnings calls (compared

FUNDS YOU SHOULD BUY NOW

Growth: **Blue Chip Growth** and **Growth Company** are aggressive, volatile large-cap options; **Contrafund** and **Growth Discovery** are somewhat more conservatively positioned resulting in lower risk. **Low-Priced Stock** and **Mid Cap Stock** have lower market caps and hold companies that are significantly less pricey.

Growth & Income: **Equity-Income** and **Equity-Dividend Income** hold attractively valued, dividend-producing stocks.

Taxable Bond: **Short-Term Bond** holds higher-yielding corporates while limiting interest-rate-risk. For those willing to assume more interest-rate risk consider **Investment Grade Bond**. Finally, **U.S. Bond Index** provides diversified exposure (mostly corporates and government bonds).

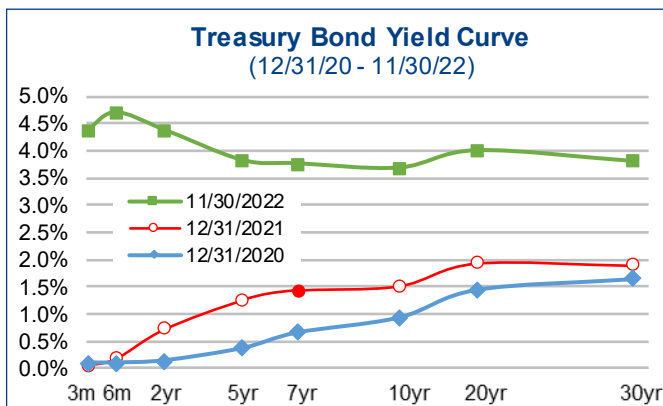
High Yield Funds: **Short Duration High Income** has only limited interest-rate risk, but boosts its yield through lower-rated bonds whose overall credit risk is not substantial (relative to the broader junk bond market).

Muni Bond Funds: **Limited Term Muni Income** is our preferred nationally-diversified fund for tax-free bond income. ■

with the second quarter). So while the economy isn't firing on all cylinders, it's so far defying pundits who are calling for a recession next year.

the economy are greater than the longer-term risks.

That view has merit. After all, the Fed has the ability to control



short-term borrowing costs far more directly than it can longer-term borrowing costs. And if it continues to see inflation as an existential threat, it will certainly keep raising rates.

On the other hand, tamer inflation combined with moderate economic growth suggests a Goldilocks economy may be emerging — one that's not too hot, and not too

The Inverted Yield Curve

We've printed the accompanying chart several times this year because it shows the magnitude of this year's rise in interest rates, and because an inversion (where shorter-term Treasuries yield more than longer-dated ones) has, since 1956, been a reliable harbinger of recession.

It also suggests — though this is highly debatable — that the markets believe that the near-term risks to

cold. Falling bond yields and rising share prices (the Dow Industrials jumped 737 points on Wednesday, or 2.2%) suggest optimism that a soft landing for the economy, coupled with declining bond yields, are in the offing. While that optimism may not be appropriate in the very near term, the Fed's determination to beat inflation suggests that better times lie ahead. ■

— John Bonnanzio

Model Portfolios Key:

¹Alternative investments include such areas as high-yield bonds, commodities, real estate. Portfolio trades and total returns do not take taxes into account. Some percentage figures may not sum to 100 due to rounding. Dividends are reinvested. Consider the tax implications of trades before you decide to buy or sell any fund. Any trades are detailed on p. 3 and are announced on regularly scheduled Friday evening Hotline updates via e-mail and web. **Annuity Model Portfolios** are on p. 10.

FUND PROFILE

Contrafund Versus The S&P 500

Most of our long-term readers (which we're grateful to say, is almost everyone!) have held funds like **Low-Priced Stock**, **Magellan**, **Growth Company** and **Contrafund** for years, if not decades. As with any investment, they have all had sustained periods of under- and out-performance.

In the case of the latter, there have been several occasions that we've come to the defense of Contrafund because Manager Will Danoff's investment style (growth-at-a-reasonable price, or GAARP) has fallen out of fashion, leaving it to trail the S&P 500. To that end, during extended periods when tech has sprinted past other sectors, Contra has often modestly trailed its benchmark and other large-cap growth funds.

More recently, however, Contrafund has been lagging in up and down market cycles — even as its tech exposure has remained pretty constant at 23% of assets. (That's a 4% underweight relative to its

benchmark and a 9% underweight relative to its Fidelity peers.) And there's been another problem area: communication services.

Over the last four quarters (through September 30), tech and communications have, respectively, accounted for 4.7 percentage points

Contrafund's Top 10 Holdings		
	Weight (in %) ⁴	YTD Return (in %)
Berkshire Hath ¹	8.5	6.6
Amazon.com	7.4	-42.1
Microsoft	6.3	-24.1
Meta Platforms	6.3	-64.9
UnitedHealth Grp	5.9	9.1
Apple	4.5	-16.6
Alphabet ²	3.2	-30.3
Alphabet ³	2.8	-29.9
Eli Lilly & Co	2.4	34.3
Regeneron Pharm	1.9	19.4

¹ Class A; ² Class A; ³ Class C; ⁴ As of 9/30/22

and 2.9 percentage points of Contra's 9.5 points of overall under-performance. And much of that is because of stock selection.

In the third quarter, Apple and Nvidia were Contra's biggest tech detractors, while Meta and Alphabet were underachievers in communication services. When combined with other portfolio problems, results have

been quite disappointing.

Down 23.9% for the year-to-date versus -13.1% for the S&P 500, its underperformance is all the more disappointing when Contrafund's risk (which is about 4% higher than the market) is also considered. Indeed, with a relative volatility of 1.04, its risk-adjusted returns now make it challenging for us to hold the fund, especially in our more risk-sensitive model portfolios.

What to do?

While we've occasionally said that investors should never count out Will Danoff (and he's long-proven us right), we must confess that if the market remains unfavorable to Will's investment style, we'll have to consider some alternatives.

On the other hand, if past is prologue, Will is certainly eyeing those broad swaths of the market that are now selling at deeply discounted prices. Lest we forget, Contra trailed its benchmark by nearly nine percentage points in 2016 only to beat it by 10.5 percentage points the following year. With that in mind, our immediate recommendation is to sit tight as our rating remains *Buy*. ■

— John Bonnanzio

INTERNATIONAL FUNDS

Few Opportunities Abroad

With this month's upgrade of **Global Equity Income** (see p. 5), only three international stock funds (from a product lineup of 33) are rated *Buy*. (A handful more are rated *OK to Buy*.)

Our longstanding lack of enthusiasm for this asset class has been well founded: U.S. companies are generally faster-growing, better managed, are more transparent, and derive substantial income and earnings from abroad anyway.

And to the last point, globalization has had at least one downside from the investors' perspective: Even when allowing for currencies, foreign stock funds have become

increasingly correlated to U.S. offerings. If you use our website's Correlation tool, you'll also see that the **500 Index** fund (a proxy for the S&P) has correlations of 92 and 91, respectively, to **Int'l Index** (a developed market fund) and **Total Int'l Equity** (which holds developed and emerging market stocks). So with many foreign funds providing little portfolio diversification and, therefore, risk reduction, we choose to derive our foreign exposures indirectly from U.S. stock funds.

As for this month's upgrades, they are based on a few modest macro-economic improvements.

The first is that Europe has successfully found alternatives to Russian oil, and especially gas. That will help greatly this winter. Second, Britain's new prime minister is mak-

ing the hard, right economic decisions, and its markets seem to agree. Third, central banks in Europe and Japan have begun to earnestly battle inflation (which now show signs of modest easing) by raising rates. In turn, the U.S. dollar's rise has stopped. That's actually good news for Fidelity's foreign stock funds which do not hedge their currency exposures. As such, we've modestly upgraded some Euro-centric funds.

Finally, with oil and other commodity prices falling amid concerns that global economic growth may slow, **Latin America** was downgraded to *OK to Sell*. On the other hand, **New Markets Income** (which holds developing market bonds), has been upgraded to *Hold* based largely on the dollar. ■

— John Bonnanzio

FUND COMMENTARY

Easing Concerns Over Rate Hikes, Inflation & Growth Propel Stocks, Bonds Higher

November was yet another tumultuous month for stock fund investors. But ultimately, optimism overtook pessimism as evidence mounted that inflation is easing while the economy may, in fact, have a soft landing.

But that was far less clear at the start of the month. In fact, stocks initially tumbled (with tech nosediving) as the Fed announced on November 2 that it was hiking interest rates another 0.75% to a range of 3.75% to 4.00%.

Initially, Fed Chairman Jerome Powell's prepared remarks suggested that a "pause" to a more modest pace of half-point hikes might be in the offing as long as there is ongoing evidence that inflation is easing. But once his press conference began, Powell's tone changed making it clear that the Fed's rate-setting committee believes that its inflation battle is far from over.

Share prices slumped.

Then on Nov. 10, stocks took flight on news that the Consumer

Price Index slowed in October to an annualized rate of 7.4%, down from a high of 9.1% just two months earlier. Bond investors also embraced the news: The yield on the benchmark 10-year Treasury plunged 30 basis points in a single day to 3.82%. Leading up to Thanksgiving, stocks meandered until the release of the Fed's October minutes, which revealed that the Fed officials had become less hawkish on raising rates.

Then, at month end, Powell all but announced that the next rate-

hike would be a more modest 0.50%. That sent the Nasdaq Composite up 4.4% while the Dow Industrials gained 737 points, or 2.2%.

Market Indexes

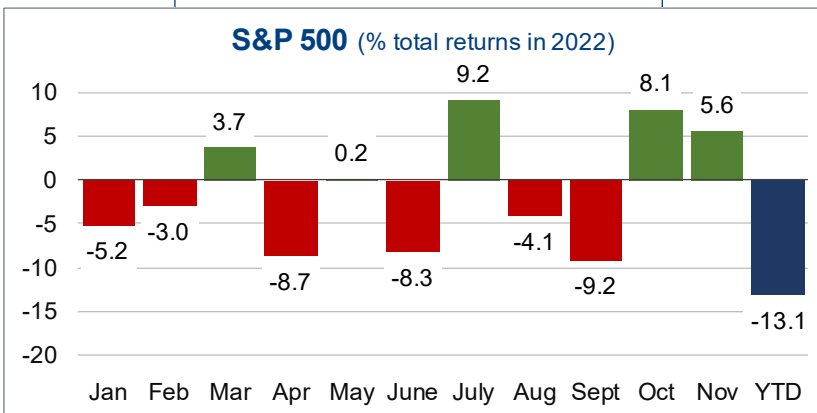
By month-end, the Dow Industrials had popped 6.0% (reducing its year-to-date decline to "only" -2.9%) followed by a surge of 5.6% for the S&P 500 (which is now down -13.1% for the year). The Dow's edge came earlier in the month when economically sensitive cyclicals led the market upward. And while large-cap tech stocks had been taken to the woodshed earlier on, the Nasdaq Composite ultimately rallied 4.5% for the month. Elsewhere, small-caps gained 2.3% whereas mid-caps jumped 6.0%.

Stocks Funds

As was the case in October, every domestic Fidelity stock fund gained ground for the month. It was, in fact, the first time this year that the S&P 500 enjoyed back-to-back gains of 8.1% and 5.6%, respectively.

While a variety of value- and growth-oriented funds topped November's performance charts, the market's sweet spot was clearly mid-cap value. To that end, **Mid Cap Value** fund

[Fund Commentary cont'd on page 11](#)



December Scorecard Rating Changes

Mutual Funds	Ticker	Ratings		Comments	
		Old	New		
Disruptive Commun's	FNETX	H	B	↑	Fund is sidestepping more problematic tech; good way to play telecom. (See p. 12.)
Disruptive Medicine	FMEDX	B	B	↓	Looking more like a risky version of Select Health Care; not particularly innovative. (See p. 12.)
Global Equity Income	FGILX	B	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
Global High Income	FGHIX	H	B	↑	With the U.S. dollar (and oil) losing its upward momentum, default risk has declined.
International Index	FSPSX	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
International Value	FIVLX	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
Latin America	FLATX	H	S	↓	Falling energy prices and waning Chinese demand for ag products are negatives (see p. 4).
New Mkts Income	FNMIX	S	H	↑	With the U.S. dollar losing its upward momentum, default risk has declined.
Select Telecomm's	FSTCX	S	H	↑	Sector's dividend yield (2.9% for the fund) should support current stock prices.
Total Int'l Equity	FTIEX	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
Total Int'l Index	FTIHX	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
Zero International	FZILX	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).
Annuities					
VIP Int'l Idx	FFIQC	H	B	↑	Energy situation in Europe is not as bad as initially feared (see p. 4).

B = Buy; B = OK to Buy; H = Hold; S = OK to Sell; S = Sell; N/C = No Change; NR = No Rating (↑) Rating upgraded; (↓) Rating downgraded.

FIDELITY SCORECARD

NOVEMBER 30, 2022

Fund No.	Fund Ticker	Fund Name	\$Price (NAV)	Advice	Total Return (%)			Avg Annual (%)					Rel Vol (Risk) ¹
					Nov	YTD	3 Mo.	1 Yr	3 Yr	5 Yr	10 Yr	15 Yr	
Comparative Indexes		S&P 500	4080.1		5.6	-13.1	3.6	-9.2	10.9	11.0	13.3	9.2	1.00
		Nasdaq Composite	11468.0		4.5	-26.2	-2.7	-25.6	10.7	11.8	15.6	11.0	1.13
		Dow Jones Industrials	34589.8		6.0	-2.9	10.4	2.5	9.5	9.7	12.9	9.2	1.01
		Russell 2000 (Small Caps)	1886.6		2.3	-14.9	2.7	-13.0	6.4	5.4	10.1	7.6	1.25
		Bloomberg Barclays Agg Bond*			3.8	-12.5	-2.0	-12.7	-2.6	0.2	1.1	1.9	0.28
Model Portfolios		Unique Opportunities			4.9	-16.3	2.7	-13.0	13.5	10.9	12.5	8.2	1.11
		Select			4.9	-18.4	0.3	-16.7	10.0	10.2	13.5	9.5	1.08
		Growth			5.4	-16.2	3.6	-13.7	12.3	11.1	12.2	8.0	1.04
		Growth & Income			4.2	-14.4	0.4	-12.9	7.9	7.2	9.0	6.5	0.66
		Income			3.2	-9.5	-0.3	-8.3	2.4	2.8	3.7	4.0	0.38
											Rel Vol (Risk) ¹	Assets (\$Mil)	
LARGE CAP GROWTH					Average	5.1	-23.1	0.4	-22.0	11.6	12.0	14.4	1.10
312	FBGRX	Blue Chip Growth	124.34	Buy	5.1	-32.0	-2.1	-32.7	11.9	13.0	15.7	1.28	\$34,313
307	FDCAX	Capital Appreciation	36.80	Hold	6.0	-16.6	1.6	-14.5	12.8	11.7	13.0	1.02	5,057
22	FCNTX	Contrafund	14.09	Buy	5.2	-23.9	1.1	-22.9	8.9	9.9	13.1	1.04	89,003
3	FFIDX	Fidelity Fund	62.40	Buy	5.6	-21.0	2.0	-17.8	11.1	11.0	12.7	1.01	5,664
333	FTQGX	Focused Stock	26.96	OK to Buy	3.6	-22.4	0.1	-21.5	11.1	12.8	13.8	1.05	2,644
3336	FIFNX	Founders Fund	14.64	Hold	3.4	-21.8	-0.5	-21.7	12.1	--	--	1.04	62
25	FDGRX	Growth Company (Closed)	26.48	Buy	4.9	-27.4	0.6	-29.9	15.4	14.8	17.1	1.26	34,914
339	FDSVX	Growth Discovery	43.53	Buy	5.3	-19.4	0.0	-18.6	13.8	13.7	15.4	1.05	2,535
1829	FLGEX	Lrge Cap Growth Enhcd Index	24.86	Buy	4.5	-20.8	0.1	-18.8	12.7	12.2	14.4	1.06	1,642
2826	FSPGX	Lrge Cap Growth Index	22.70	OK to Buy	4.6	-23.3	-0.1	-21.7	11.7	12.9	--	1.12	10,421
21	FMAGX	Magellan	11.53	OK to Buy	6.5	-22.0	1.0	-20.6	9.1	9.7	13.0	1.08	24,169
1282	FNCMX	Nasdaq Composite Index	145.73	OK to Buy	4.5	-26.0	-2.6	-25.4	10.7	11.7	15.4	1.13	10,668
93	FOCPX	OTC	13.94	OK to Buy	6.7	-26.3	1.6	-25.9	12.0	12.9	17.4	1.12	15,846
320	FDSX	Stock Selector All Cap	59.15	Hold	5.1	-14.8	2.9	-11.3	10.6	9.8	12.6	1.03	1,334
5	FTRNX	Trend	122.44	OK to Buy	6.1	-28.3	-0.2	-27.4	10.0	11.4	14.0	1.19	2,312
LARGE CAP BLEND					Average	5.8	-10.4	5.1	-6.4	10.5	10.2	12.4	1.04
2328	FXAIX	500 Index	141.94	OK to Buy	5.6	-13.1	3.6	-9.2	10.9	11.0	13.3	1.00	372,750
315	FDEQX	Disciplined Equity	50.13	Hold	5.1	-23.2	1.3	-21.0	9.3	8.9	11.7	1.07	1,483
330	FDGFX	Dividend Growth	30.56	Buy	6.0	-8.0	5.5	-3.0	7.3	7.9	10.7	1.05	5,618
27	FGRX	Growth & Income	50.14	OK to Buy	6.0	-0.3	8.0	5.0	11.6	10.4	12.3	1.02	7,669
1827	FLCEX	Lrge Cap Core Enhcd Index	19.13	OK to Buy	5.3	-11.4	3.5	-7.0	11.9	11.3	13.3	0.97	1,912
338	FLCSX	Large Cap Stock	39.93	OK to Buy	6.1	-3.1	7.3	1.8	10.9	10.2	12.8	1.08	2,875
361	FGRTX	Mega Cap Stock	18.02	OK to Buy	6.8	-3.9	8.6	0.6	12.3	11.2	12.7	1.08	955
300	FMLX	New Millennium	42.93	OK to Buy	5.2	2.7	8.0	8.4	11.2	9.9	12.2	1.08	2,581
2361	FSKAX	Total Market Index	114.24	Buy	5.3	-14.5	3.3	-11.2	10.1	10.2	12.9	1.03	67,824
5029	FULVX	U.S. Low Volatility Equity	10.65	OK to Buy	4.8	-7.4	5.4	-1.8	--	--	--	--	310
6391	FSEBX	Sustainability U.S. Equity	9.47	Hold	7.5	-14.6	5.4	-11.4	--	--	--	--	15
2941	FITLX	U.S. Sustainability Index	17.98	OK to Buy	6.7	-15.2	4.2	-11.6	10.9	11.3	--	1.01	2,250
3396	FWOMX	Women's Leadership	13.48	Hold	6.6	-15.0	6.2	-13.1	9.3	--	--	1.10	101
3231	FNILX	Zero Large Cap Index	14.45	OK to Buy	5.5	-14.3	3.4	-11.0	10.6	--	--	1.01	5,635
3227	FZROX	Zero Total Market Index	14.41	Buy	5.3	-14.1	3.5	-10.7	10.3	--	--	1.03	12,983
LARGE CAP VALUE					Average	5.9	-0.6	7.6	6.3	9.7	8.3	11.0	1.01
1271	FBCVX	Blue Chip Value	24.87	Buy	5.2	4.2	8.2	11.9	8.5	7.0	10.6	1.02	805
319	FEQTX	Equity Dividend Income	28.04	Buy	6.3	2.1	7.2	9.8	9.4	8.3	10.5	1.01	5,187
23	FEQIX	Equity-Income	68.30	Buy	5.7	-1.4	8.0	4.7	10.5	9.2	10.7	0.91	6,774
1828	FLVEX	Lrge Cap Value Enhcd Index	15.61	OK to Buy	5.8	-2.6	7.3	3.8	10.1	8.8	11.8	1.01	6,040
2830	FLCOX	Lrge Cap Value Index	15.66	OK to Buy	6.2	-3.7	6.9	2.4	8.4	7.9	--	1.03	5,777
708	FSLVX	Stock Sel Large Cap Value	25.16	OK to Buy	6.7	-1.9	7.3	4.6	9.5	8.1	10.8	1.09	406
832	FVDFX	Value Discovery	36.54	Buy	5.4	-0.5	8.1	7.0	11.2	8.9	11.5	0.99	2,976
MID-CAP GROWTH					Average	5.6	-21.7	4.7	-20.8	7.0	9.6	12.3	1.16
324	FDEGX	Growth Strategies	49.88	Buy	5.8	-21.5	5.3	-19.9	7.8	9.6	12.3	1.14	2,774
3403	FMDGX	Mid Cap Growth Index	23.15	Hold	5.4	-22.0	4.1	-21.7	6.3	--	--	1.18	547
MID-CAP BLEND					Average	5.0	-11.3	4.6	-7.3	9.0	8.5	11.6	1.19
2365	FSMAX	Extended Market Index	68.32	Buy	3.6	-21.3	1.3	-20.8	6.1	6.4	10.7	1.28	30,941
2012	FMEIX	Mid Cap Enhanced Index	16.93	OK to Buy	5.7	-9.1	6.3	-4.5	9.9	8.2	11.9	1.13	1,788
2352	FMDX	Mid Cap Index	27.75	OK to Buy	6.0	-12.6	4.8	-9.0	8.7	8.5	11.9	1.14	25,894
337	FMDX	Mid-Cap Stock	39.48	Buy	4.6	-2.0	6.3	4.4	12.6	10.7	12.7	1.11	6,936
2412	FSSMX	Stock Selector Mid Cap	40.76	OK to Buy	5.7	-9.9	5.2	-4.4	8.8	8.5	10.9	1.24	350
3230	FZIPX	Zero Extended Market Index	11.36	Hold	4.2	-12.9	3.6	-9.6	8.0	--	--	1.24	1,323

Notes: Fund yields, durations and assets are the most current available. *Fidelity's U.S. Bond Index used as a proxy for the Barclays Aggregate Bond Index. ¹Relative Volatility (Rel Vol) versus the S&P 500 over the last 36 months; 1.50 means the fund has been 50% more volatile. ²Duration is a measure of interest rate sensitivity. ³Stated yield is actual distributed yield over prior 12 months. ⁴Almost a Specialty fund with 30%+ typically in foreign stocks. (p) Partial year; (↑) Rating upgraded; (↓) Rating downgraded.

FIDELITY SCORECARD

NOVEMBER 30, 2022

Fund No.	Fund Ticker	Fund Name	\$Price (NAV)	Advice	Total Return (%)			Avg Annual (%)				Rel Vol (Risk) ¹	Assets (\$Mil)	
					Nov	YTD	3 Mo.	1 Year	3 Year	5 Year	10Year			
MID-CAP VALUE					Average	6.7	-4.2	6.2	2.5	11.3	8.3	11.2	1.23	
316	FLPSX	Low-Priced Stock ⁵	48.56	Buy	6.6	-3.0	7.9	3.1	11.1	8.6	11.2	1.04	\$25,215	
762	FSMVX	Mid Cap Value	27.35	OK to Buy	7.3	-5.0	6.0	2.0	9.8	5.5	10.4	1.20	1,091	
3404	FIMVX	Mid Cap Value Index	24.26	OK to Buy	6.3	-7.4	5.1	-1.5	8.6	--	--	1.18	848	
39	FDVLX	Value	14.15	OK to Buy	6.6	-3.7	5.4	3.4	13.7	9.6	11.9	1.41	7,604	
14	FSLSX	Value Strategies	50.65	OK to Buy	6.4	-2.2	6.7	5.5	13.1	9.7	11.2	1.31	566	
SMALL CAP GROWTH					Average	2.4	-21.1	1.6	-20.6	5.2	9.3	13.5	1.22	
1388	FCPGX	Small Cap Growth	25.03	OK to Buy	3.2	-21.0	1.9	-20.5	6.8	9.3	13.5	1.18	2,683	
3405	FECGX	Small Cap Growth Index	22.20	OK to Buy	1.6	-21.1	1.2	-20.8	3.7	--	--	1.26	334	
SMALL CAP BLEND					Average	3.6	-14.7	2.8	-11.4	7.6	6.5	10.1	1.25	
384	FSCRX	Small Cap Discovery	24.62	OK to Buy	5.7	-13.2	3.8	-7.7	8.9	6.7	10.1	1.33	2,957	
2011	FCPEX	Small Cap Enhanced Index	12.72	OK to Buy	3.6	-13.4	3.5	-10.8	8.0	5.8	10.0	1.23	582	
2358	FSSNX	Small Cap Index	23.49	OK to Buy	2.4	-14.8	2.7	-12.9	6.5	5.6	10.3	1.25	19,694	
340	FSLCX	Small Cap Stock	15.14	Buy	2.2	-18.5	-0.3	-15.5	4.3	5.3	9.1	1.28	1,244	
336	FDSCX	Stock Selector Small Cap	29.60	OK to Buy	3.9	-13.8	4.3	-10.1	10.1	9.3	11.3	1.17	1,382	
SMALL CAP VALUE					Average	4.2	-8.6	4.7	-3.7	10.6	7.4	11.4	1.30	
1389	FCPVX	Small Cap Value	18.67	OK to Buy	5.4	-8.8	5.2	-2.7	13.0	7.4	11.4	1.28	2,660	
3406	FISVX	Small Cap Value Index	23.24	OK to Buy	3.1	-8.4	4.2	-4.7	8.3	--	--	1.31	918	
REAL ESTATE														
1368	FIREX	International Real Estate	10.14	OK to Sell	7.4	-26.2	-5.4	-23.5	-3.2	1.6	5.1	0.91	268	
833	FRIFX	Real Estate Income	11.52	Hold	3.3	-13.2	-3.6	-10.8	1.0	3.7	5.5	0.87	1,531	
2355	FSRNX	Real Estate Index	15.52	Hold	6.2	-22.2	-4.3	-14.6	-1.3	2.8	6.2	1.15	2,521	
303	FRESX	Real Estate Investment	41.29	Hold	7.4	-20.1	-3.5	-11.9	1.2	4.7	7.5	1.06	3,133	
ASSET ALLOCATION														
328	FASIX	Asset Manager 20%	13.22	Hold	3.2	-9.2	-0.4	-8.6	1.1	2.3	3.2	0.34	3,765	
1957	FTANX	Asset Manager 30%	11.27	Hold	4.1	-10.9	0.0	-9.9	2.1	3.1	4.2	0.43	1,662	
1958	FFANX	Asset Manager 40%	12.12	Hold	4.8	-11.8	0.5	-10.4	3.1	3.8	5.2	0.52	1,572	
314	FASMX	Asset Manager 50%	19.10	Hold	5.4	-12.9	0.9	-11.2	3.9	4.4	6.1	0.61	7,510	
1959	FSANX	Asset Manager 60%	13.95	Hold	6.1	-13.8	1.4	-11.8	4.7	5.0	6.9	0.70	2,104	
321	FASGX	Asset Manager 70%	24.82	Hold	6.6	-14.1	2.0	-11.7	5.7	5.6	7.7	0.77	3,851	
347	FAMRX	Asset Manager 85%	22.59	Hold	7.4	-15.3	2.8	-12.5	6.9	6.5	9.1	0.90	1,890	
304	FBALX	Balanced	24.04	Buy	4.9	-14.6	1.2	-12.0	8.2	8.3	9.5	0.78	30,889	
3083	FMSDX	Multi-Asset Income	12.78	Hold	4.3	-11.1	1.2	-9.3	7.9	8.1	--	0.61	947	
355	FFNOX	Multi-Asset Index	50.55	Hold	8.2	-14.7	3.4	-12.1	6.0	6.5	9.0	0.87	7,322	
4	FPURX	Puritan	21.32	Buy	4.3	-14.2	1.8	-12.2	7.9	7.6	9.3	0.71	23,137	
6477	FYMRX	Sustainable Multi-Asset	8.72	Hold	8.2	-12.8p	2.3	--	--	--	--	--	6	
INTERNATIONAL					Average	12.9	-17.0	5.1	-14.4	3.2	2.9	6.2	1.06	
309	FICDX	Canada	63.66	OK to Buy	6.5	-1.4	5.5	4.1	10.0	7.7	5.9	1.06	872	
352	FHKCX	China Region	32.90	OK to Sell	30.1	-24.2	-2.2	-25.0	1.5	2.1	7.0	1.35	955	
325	FDIVX	Diversified International	38.20	Hold	12.4	-21.2	8.1	-18.9	3.2	3.3	6.1	0.99	8,033	
351	FSEAX	Emerging Asia	36.37	OK to Sell	20.3	-29.0	0.3	-32.9	3.9	3.8	6.7	1.27	984	
322	FEMKX	Emerging Markets	32.87	OK to Sell	17.9	-24.7	-0.4	-24.4	2.7	2.9	5.3	1.06	3,875	
2374	FEDDX	Emerging Mkts Discovery	14.36	Hold	10.6	-10.4	2.9	-9.5	6.0	2.5	4.3	1.08	275	
2344	FPADX	Emerging Markets Index	9.94	OK to Sell	16.1	-17.8	0.1	-16.4	0.3	-0.3	2.2	1.02	6,139	
5031	FEOPX	Enduring Opportunities	11.91	Buy	8.9	-26.2	2.6	-24.7	--	--	--	--	12	
301	FIEUX	Europe	31.09	Hold	12.8	-19.7	9.2	-16.0	2.0	1.2	4.9	1.06	585	
2406	FGILX	Global Equity Income	16.68	Buy↑	7.1	-8.1	6.0	-3.1	9.1	8.2	9.7	0.86	153	
2348	FSGGX	Global ex U.S. Index	13.20	Hold	13.8	-13.7	6.1	-10.4	2.4	1.9	4.4	0.96	8,396	
335	FIVFX	International Cap App	22.07	Buy	13.1	-22.3	7.3	-20.1	3.4	4.7	8.1	1.05	4,284	
305	FIGRX	International Discovery	41.21	Hold	11.3	-22.1	5.9	-20.1	3.2	2.5	5.8	1.01	3,734	
2010	FIENX	International Enhanced Index	9.81	Hold	13.1	-11.9	9.5	-7.9	3.0	1.6	5.6	0.99	1,470	
1979	FIGFX	International Growth	16.92	Buy	12.4	-19.7	8.9	-16.3	3.9	5.5	7.3	1.00	1,326	
2363	FSPSX	International Index	43.05	OK to Buy↑	13.7	-12.7	9.1	-8.6	2.8	2.5	5.4	1.01	36,527	
818	FISMX	International Small Cap	27.00	Hold	10.5	-16.4	4.7	-12.8	3.1	1.8	8.0	1.05	1,264	
1504	FSCOX	Int'l Small Cap Opps (Closed)	19.56	Hold	11.8	-26.4	7.2	-23.4	2.6	3.3	8.1	1.09	776	
2988	FNIDX	International Sustainability Idx	11.00	Hold	14.7	-16.8	5.7	-13.8	1.7	1.7	--	0.96	379	
1597	FIVLX	International Value	8.66	OK to Buy↑	13.2	-7.0	11.3	-1.8	4.6	1.9	4.3	1.13	409	
350	FJPNX	Japan	15.02	Hold	12.5	-18.9	5.0	-19.2	2.2	2.2	6.9	0.93	127	
360	FJSCX	Japan Smaller Companies	13.85	Hold	11.1	-12.1	4.8	-9.6	-1.9	-1.0	8.8	0.80	405	
349	FLATX	Latin America	20.44	OK to Sell↓	-3.4	6.8	2.6	15.2	-7.1	-1.8	-3.2	1.75	252	
342	FNORX	Nordic	52.08	Hold	12.9	-19.2	10.1	-15.7	10.9	6.8	10.4	1.17	291	
94	FOSFX	Overseas	52.52	OK to Buy	12.8	-22.4	8.1	-18.9	3.5	3.5	7.4	1.06	6,911	
302	FPBFX	Pacific Basin	30.64	Hold	17.9	-21.5	3.2	-20.9	3.9	3.5	8.8	0.98	769	
6468	FSYJX	Sustainable Emerg Mkts Eqty	7.77	OK to Sell	18.4	-22.3p	0.2	--	--	--	--	--	3	
6462	FSYRX	Sustainable Int'l Equity	8.18	Hold	13.5	-18.2p	6.0	--	--	--	--	--	5	
2369	FTEMX	Total Emerging Markets	11.43	OK to Sell	12.9	-21.1	0.5	-20.6	-2.0	-1.2	2.5	0.97	100	
1978	FTIEX	Total International Equity	9.79	OK to Buy↑	13.8	-14.9	6.9	-11.4	5.3	4.3	6.1	0.98	99	
2834	FTIHX	Total International Index	12.28	OK to Buy↑	13.5	-14.4	5.6	-11.1	2.5	1.9	--	0.98	9,152	
318	FWWFX	Worldwide	27.88	OK to Buy	6.2	-22.4	1.6	-21.4	7.9	8.4	10.3	1.01	1,999	
3228	FZILX	Zero International Index	10.31	OK to Buy↑	13.5	-14.0	6.1	-10.7	2.5	--	--	0.98	2,982	

FIDELITY SCORECARD

NOVEMBER 30, 2022

Fund No.	Fund Ticker	Fund Name	\$Price (NAV)	Advice	Total Return (%)			Avg Annual (%)				Rel Vol (Risk) ¹	Assets (\$Mil)
					Nov	YTD	3 Mo.	1 Year	3 Year	5 Year	10Year		
SPECIALTY													
6385	FCAEX	Climate Action	8.81	Hold	9.2	-20.9	4.3	-20.1	--	--	--	--	\$20
308	FCVFX	Convertible Securities	31.58	Hold	2.9	-12.6	0.4	-11.8	12.1	11.8	9.9	0.85	1,538
2120	FFGCX	Global Commodity Stock	20.80	OK to Sell	6.4	28.1	9.6	36.6	22.1	13.1	5.9	1.35	977
6553	FAPHX	Healthy Future Fund	10.09	OK to Buy	6.5	0.9p	1.8	--	--	--	--	--	2
6875	FEQHX	Hedged Equity	10.09	NR	4.0	0.9p	--	--	--	--	--	--	44
3488	FNSTX	Infrastructure Fund	12.07	OK to Sell	7.6	-3.3	1.4	2.0	--	--	--	--	40
122	FLVCX	Leveraged Company Stock	34.94	Hold	5.6	-17.0	2.8	-13.6	11.3	9.0	10.5	1.32	1,859
6519	FAQAX	Macro Opportunities	9.56	NR	0.2	-4.4p	--	--	--	--	--	--	<1
6513	FAPSX	Risk Parity	9.93	NR	6.9	-0.7p	--	--	--	--	--	--	1
1329	FSDIX	Strategic Dividend & Income	16.26	OK to Buy	5.4	-7.0	3.7	-1.8	8.0	7.7	9.3	0.76	3,094
1505	FSRRX	Strategic Real Return	8.66	Hold	2.9	-1.4	-0.8	1.3	6.5	4.9	2.7	0.55	390
311	FIUIX	Telecom & Utilities	29.37	Hold	5.7	7.2	1.0	15.4	6.4	7.8	9.7	0.84	991
DISRUPTOR/MEGATREND FUNDS					Average	6.4	-21.1	2.8	-18.9				
6041	FARMX	Agricultural Productivity	22.51	Hold	4.6	20.7	8.7	28.1	--	--	--	--	150
6036	FBOTX	Disruptive Automation	14.56	OK to Buy	12.3	-28.1	5.4	-25.5	--	--	--	--	19
6037	FNETX	Disruptive Communications	10.77	OK to Buy↑	5.7	-33.8	-2.7	-33.7	--	--	--	--	4
6038	FNTEX	Disruptive Finance	14.03	Hold	5.2	-21.2	2.8	-17.7	--	--	--	--	7
6039	FMEDX	Disruptive Medicine	11.20	OK to Buy↓	5.1	-18.7	5.4	-16.5	--	--	--	--	7
6040	FTEKX	Disruptive Technology	10.87	OK to Buy	5.3	-42.6	-6.0	-45.4	--	--	--	--	19
6043	FGDFX	Disruptors	12.64	OK to Buy	6.8	-29.0	1.1	-28.2	--	--	--	--	24
6042	FLOWX	Water Sustainability	14.15	OK to Buy	6.0	-16.5	7.6	-12.3	--	--	--	--	90
SELECT PORTFOLIOS					Average	6.4	-9.2	5.3	-4.8	10.0	9.2	12.0	1.25
502	FSAVX	Automotive	46.49	Hold	6.8	-28.2	-1.2	-27.4	15.8	10.8	12.4	1.46	105
507	FSRBX	Banking	27.57	Buy	2.3	-5.4	6.1	-2.5	6.0	5.2	10.9	1.51	464
42	FBIOX	Biotechnology	16.53	Buy	3.1	-14.6	4.4	-15.4	2.4	5.0	12.0	1.13	5,350
68	FSLBX	Brokerage & Investment	115.65	OK to Buy	7.5	-12.1	8.5	-10.2	15.2	11.6	13.3	1.23	830
69	FSCHX	Chemicals	16.56	OK to Buy	9.3	-8.5	8.0	-1.1	13.3	3.8	9.7	1.23	699
503	FBMPX	Communication Services	60.39	Buy	6.9	-33.5	-5.0	-31.5	2.1	6.5	10.1	1.14	658
511	FSHOX	Construction & Housing	86.79	OK to Buy	8.4	-19.6	7.9	-13.6	16.5	14.2	14.4	1.28	490
517	FSCPX	Consumer Discretionary	47.06	Buy	3.9	-27.8	-2.2	-27.6	6.3	8.5	11.8	1.28	411
9	FDFAX	Consumer Staples	97.39	OK to Buy	7.2	2.3	7.4	14.0	10.2	8.3	8.9	0.85	923
67	FSDAX	Defense & Aerospace	15.33	OK to Buy	5.1	5.0	9.1	10.8	-0.3	5.1	12.5	1.38	1,457
60	FSENX	Energy	59.99	OK to Sell	1.1	70.2	13.3	74.7	24.6	9.6	5.3	2.18	3,331
516	FSLEX	Environment & Alt Energy	28.52	OK to Buy	7.5	-20.1	1.1	-19.7	9.1	6.8	11.1	1.25	512
66	FIDSX	Financial Services	12.06	Buy	4.5	-2.4	8.5	1.9	10.4	8.6	12.1	1.31	758
98	FSVLX	FinTech	13.47	OK to Buy	1.2	-25.8	-1.7	-24.0	-2.0	3.0	8.0	1.57	111
41	FSAGX	Gold	22.19	Sell	18.4	-14.4	18.3	-12.5	2.6	3.8	-4.3	1.82	1,078
63	FSPHX	Health Care	28.33	Buy	3.8	-10.6	6.3	-5.1	9.2	11.5	15.6	0.87	8,641
505	FSHCX	Health Care Services	137.39	Buy	-0.8	4.2	3.4	17.8	15.4	14.4	16.3	0.93	1,816
515	FCYIX	Industrials	30.21	Buy	6.1	-8.3	8.7	-3.7	6.5	5.8	10.4	1.21	439
45	FSPCX	Insurance	76.38	Buy	5.8	10.3	13.9	17.4	12.9	10.2	14.0	1.12	380
353	FBSOX	IT Services	55.75	OK to Buy	3.8	-24.5	1.3	-20.0	0.9	8.7	14.8	1.26	2,201
62	FDSLX	Leisure	15.52	OK to Buy	6.9	-8.7	10.0	-0.5	11.0	9.8	13.5	1.42	572
509	FSDPX	Materials	104.16	OK to Buy	12.6	-4.7	11.3	2.9	16.1	6.1	7.9	1.19	599
354	FSMEX	Medical Tech & Devices	62.37	OK to Buy	7.2	-23.9	5.1	-21.0	8.1	12.4	17.2	1.06	7,214
514	FNARX	Natural Resources	41.30	OK to Sell	4.3	46.9	15.1	53.3	20.6	9.4	4.5	1.93	809
580	FPHAX	Pharmaceuticals	24.15	Buy	5.5	2.9	9.5	9.1	11.0	12.4	12.1	0.73	823
46	FSRPX	Retailing	17.18	OK to Buy	6.5	-24.0	4.6	-24.2	9.6	12.0	15.4	1.20	2,912
8	FSELX	Semiconductors	16.84	OK to Buy	20.2	-26.6	7.3	-25.4	21.7	19.2	24.5	1.63	6,828
28	FSCSX	Software & IT Services	21.76	OK to Buy	4.5	-24.8	-0.5	-23.8	9.6	13.5	18.0	1.11	8,861
7	FDCPX	Tech Hardware	78.06	OK to Buy	8.0	-22.4	4.3	-16.8	14.6	13.0	14.3	1.08	738
64	FSPTX	Technology	19.53	Buy	5.6	-30.9	-1.6	-30.3	12.9	13.5	17.5	1.26	8,326
96	FSTCX	Telecommunications	47.46	Hold↑	3.5	-13.9	0.1	-11.0	1.2	2.7	6.2	0.84	170
512	FSRFX	Transportation	102.29	Hold	8.8	-3.3	3.5	5.4	11.6	8.5	14.2	1.23	606
65	FSUTX	Utilities	107.86	Hold	6.9	5.9	-1.2	14.8	8.8	9.9	11.5	0.94	1,490
963	FWRLX	Wireless	10.74	Hold	4.9	-21.7	-3.0	-16.5	6.9	9.2	10.7	0.95	315
SECTOR ETFs					Average	5.6	-5.1	3.7	0.1	10.2	9.1	1.19	
	FCOM	MSCI Communication Services	33.56	OK to Buy	4.8	-34.2	-5.8	-32.6	-0.6	2.9	--	1.12	504
	FDIS	MSCI Consumer Discretionary	63.78	Buy	2.4	-27.3	-3.9	-27.3	11.7	11.8	--	1.36	1,030
	FSTA	MSCI Consumer Staples	46.54	OK to Buy	5.9	1.5	6.2	11.4	10.7	9.4	--	0.76	1,070
	FENY	MSCI Energy	25.01	OK to Sell	1.3	69.7	14.1	74.5	23.6	10.2	--	2.23	1,680
	FNCL	MSCI Financials	51.20	Buy	6.0	-6.8	9.5	-4.3	8.0	7.3	--	1.25	1,550
	FHLC	MSCI Health Care	65.57	Buy	4.6	-3.5	10.2	3.8	12.4	11.9	--	0.81	3,040
	FIDU	MSCI Industrials	52.79	Buy	7.1	-5.0	8.8	-0.4	9.4	8.4	--	1.19	657
	FTEC	MSCI Information Technology	102.89	Buy	5.3	-23.5	-0.2	-21.6	14.8	16.7	--	1.19	5,110
	FMAT	MSCI Materials	46.29	OK to Buy	11.1	-6.6	9.4	0.2	13.6	8.2	--	1.22	414
	FREL	MSCI Real Estate	26.24	Hold	6.0	-22.3	-4.4	-14.8	1.5	4.9	--	1.09	1,460
	FUTY	MSCI Utilities	46.28	Hold	6.9	2.0	-2.6	11.8	7.1	7.9	--	0.94	2,010

FIDELITY SCORECARD NOVEMBER 30, 2022

Fund No.	Fund Ticker	Fund Name	\$Price (NAV)	Advice	Total Return (%)			Avg Annual (%)				SEC %Yield	Dur ² (Yrs)	Rel Vol (Risk) ¹			
					Nov	YTD	3 Mo.	1 Yr	3 Yr	5 Yr	10 Yr						
TAXABLE BOND					Average			2.8	-10.7	-1.8	-11.0	-2.0	0.4	0.9	4.27	5.1	0.27
2267	FCONX	Conservative Income Bond	9.98	OK to Buy	0.4	0.7	0.6	0.6	0.6	1.3	1.0	3.97	0.2	0.06			
2208	FCBFX	Corporate Bond	10.15	OK to Buy	4.8	-16.0	-1.6	-16.0	-2.7	0.7	2.0	5.40	6.8	0.46			
6379	FFBFX	Environmental Bond	8.48	OK to Buy	3.9	-13.3	-2.0	-13.5	--	--	--	4.07	6.0	--			
2423	FGBFX	Global Credit	7.65	Hold	4.2	-19.2	-3.6	-19.3	-4.5	-0.5	-0.0	5.28	6.5	0.50			
15	FGMNX	GNMA (Ginnie Mae)	10.18	Hold	3.7	-10.6	-2.5	-10.7	-2.7	-0.4	0.6	3.17	5.0	0.26			
54	FGOVX	Government Income	9.21	OK to Buy	3.2	-12.2	-2.5	-12.6	-3.0	-0.3	0.4	3.52	6.1	0.27			
2418	FIPDX	Inflation-Protected Index	9.93	OK to Sell	1.8	-11.0	-3.7	-10.8	1.6	2.4	1.1	0.00	6.8	0.33			
32	FTHRX	Intermediate Bond	9.91	OK to Buy	2.3	-8.6	-1.2	-8.7	-1.1	0.8	1.2	4.62	3.8	0.21			
452	FSTGX	Intermediate Gov't Income	9.61	OK to Buy	1.8	-8.2	-1.5	-8.5	-1.9	0.1	0.4	3.81	3.9	0.18			
3045	FUAMX	Intermediate Treasury Index	9.70	OK to Buy	3.1	-11.8	-2.0	-12.1	-2.4	0.3	0.7	3.95	6.3	0.30			
4506	FBIIX	International Bond Index	9.01	Hold	1.8	-9.1	-0.5	-9.6	-2.5	--	--	2.98	7.2	--			
26	FBNDX	Investment Grade Bond	7.13	Buy	3.6	-12.9	-2.2	-13.0	-1.7	0.8	1.5	4.85	5.9	0.30			
2622	FJRLX	Limited Term Bond	10.80	Buy	1.7	-6.1	-0.7	-6.2	-0.8	0.8	1.1	4.71	2.6	0.17			
662	FFXSX	Limited Term Government	9.40	OK to Buy	1.2	-6.1	-1.1	-6.4	-1.3	0.2	0.3	3.85	2.8	0.13			
3047	FNBGX	Long-Term Treasury Index	10.41	Hold	7.1	-27.7	-6.8	-29.1	-7.8	-1.5	0.5	4.04	16.1	0.70			
40	FMSFX	Mortgage Securities	9.88	Hold	4.2	-11.8	-2.7	-11.8	-3.0	-0.4	0.8	3.06	6.1	0.28			
450	FSHBX	Short-Term Bond	8.20	Buy	1.0	-3.9	-0.5	-4.0	-0.3	0.9	0.9	4.42	1.7	0.11			
3041	FNSOX	Short-Term Bond Index	9.48	OK to Buy	1.4	-5.5	-0.7	-5.7	-0.7	0.8	--	4.67	2.6	0.12			
3049	FUMBX	Short-Term Treasury Index	9.88	OK to Buy	1.1	-5.5	-0.8	-5.7	-0.9	0.6	0.6	4.42	2.5	0.13			
3086	FNDX	Sustainability Bond Index	9.20	OK to Buy	3.6	-12.3	-2.1	-12.6	-2.7	--	--	4.11	6.0	0.28			
6541	FIAEX	Sustainable Core Plus Bond	9.24	OK to Buy	3.4	-6.1p	-2.0	--	--	--	--	4.67	5.8	--			
6526	FAPGX	Sustainable Low Dur Bond	9.96	Hold	0.4	0.5p	0.4	--	--	--	--	3.76	0.4	--			
6502	FBAGX	Tactical Bond	8.92	Hold	3.3	-8.8p	-1.6	--	--	--	--	5.66	4.8	--			
820	FTBFX	Total Bond	9.44	Buy	3.7	-12.3	-1.7	-12.3	-1.3	1.0	1.8	5.35	5.8	0.31			
2326	FXNAX	U.S. Bond Index	10.27	Buy	3.8	-12.5	-2.0	-12.7	-2.6	0.2	1.1	4.17	6.1	0.28			
HIGH-YIELD BOND					Average			3.1	-9.2	0.7	-7.9	0.3	1.6	3.3	7.03	3.6	0.51
38	FAGIX	Capital & Income	9.29	OK to Buy	2.5	-9.2	1.1	-7.1	4.6	4.7	6.2	6.55	3.7	0.67			
814	FFRHX	Floating Rate High Income	9.03	OK to Buy	1.4	-0.6	0.3	0.0	2.7	3.1	3.2	8.04	0.2	0.42			
1366	FHIFX	Focused High Income	7.68	OK to Buy	1.7	-10.5	0.9	-8.7	-0.9	1.6	3.1	6.44	4.5	0.46			
2297	FGHIX	Global High Income	8.14	OK to Buy	4.6	-11.5	0.8	-10.3	-0.5	1.0	3.3	7.49	3.7	0.59			
455	SPHIX	High Income	7.42	Hold	1.9	-10.9	0.2	-8.8	-1.0	1.3	3.3	8.04	4.0	0.54			
331	FNMIX	New Markets Income	11.56	Hold	8.2	-15.3	1.7	-14.3	-3.8	-2.1	1.1	7.11	6.2	0.67			
2580	FSAHX	Short Duration High Income	8.62	Buy	1.3	-5.5	0.7	-4.1	0.8	1.9	--	6.87	2.2	0.36			
3082	FADMX	Strategic Income	11.03	OK to Buy	3.4	-10.4	-0.3	-9.7	0.5	1.6	2.8	5.71	4.6	0.41			
MUNICIPAL BOND					Average			4.0	-8.0	0.0	-7.9	-0.9	1.1	1.8	3.34	6.0	0.28
434	FSAZX	Arizona Muni Income	11.15	OK to Buy	4.3	-8.9	0.0	-8.9	-1.1	1.0	1.8	3.30	7.0	0.29			
1534	FCSTX	Calif Limited Term Tax Free	10.15	Buy	2.1	-4.6	0.1	-4.6	-0.4	0.8	1.0	2.87	2.8	0.17			
91	FCTFX	California Muni Income	11.87	OK to Buy	4.4	-8.9	0.1	-8.9	-1.0	1.2	2.1	3.29	6.9	0.31			
407	FICNX	Connecticut Muni Income	10.68	OK to Buy	4.3	-8.4	0.0	-8.3	-0.8	1.4	1.7	3.15	5.8	0.29			
2578	FCRD	Conservative Income Muni	9.97	OK to Buy	0.5	-0.0	0.5	-0.0	0.3	0.8	--	2.42	0.5	0.04			
36	FLTMX	Interm Municipal Income	9.90	OK to Buy	3.5	-6.5	0.2	-6.4	-0.3	1.5	1.7	3.35	4.8	0.25			
404	FSTFX	Limited Term Muni Income	10.14	Buy	2.1	-4.7	-0.0	-4.6	-0.3	0.9	0.9	3.25	2.7	0.17			
429	SMDMX	Maryland Muni Income	10.48	OK to Buy	4.5	-9.0	0.1	-8.9	-1.2	0.9	1.6	3.33	6.9	0.30			
70	FDMMX	Mass Muni Income	11.17	OK to Buy	4.2	-9.0	-0.1	-8.8	-1.1	0.9	1.6	3.17	7.1	0.30			
81	FMHTX	Michigan Muni Income	11.23	OK to Buy	4.4	-9.2	-0.2	-9.1	-1.0	1.2	1.9	3.50	6.8	0.29			
82	FIMIX	Minnesota Muni Income	10.87	OK to Buy	3.8	-7.7	0.1	-7.6	-0.8	1.1	1.6	3.17	6.2	0.27			
3469	FMBIX	Municipal Bond Index	18.13	OK to Buy	4.9	-9.4	0.1	-9.2	-1.8	--	--	3.58	6.9	0.32			
37	FHIGX	Municipal Income	11.90	OK to Buy	5.4	-10.2	-0.1	-10.0	-1.0	1.4	2.1	3.78	7.9	0.36			
416	FNJHX	New Jersey Muni Income	11.14	OK to Buy	4.7	-9.3	0.1	-9.2	-0.6	1.7	2.1	3.34	6.8	0.35			
71	FTFMX	New York Muni Income	11.93	OK to Buy	5.1	-10.5	-0.2	-10.3	-1.3	1.0	1.7	3.78	8.5	0.35			
88	FOHFX	Ohio Muni Income	11.15	OK to Buy	4.5	-8.7	0.0	-8.7	-1.1	1.0	2.0	3.20	6.8	0.29			
402	FPXTX	Pennsylvania Muni Income	10.25	OK to Buy	4.9	-9.6	0.2	-9.4	-1.1	1.2	1.9	3.49	7.3	0.31			
6532	FSIKX	Sustainable Intermed Muni	9.90	OK to Buy	3.6	0.5p	0.3	--	--	--	--	3.56	5.2	--			
90	FTABX	Tax-Free Bond	10.65	OK to Buy	5.3	-10.1	-0.2	-10.0	-0.9	1.4	2.2	4.02	7.7	0.36			

Yields on municipal funds are not directly comparable to yields on taxable funds. In muni funds shareholders' effective yield will be higher as their tax-bracket increases. ¹12-month distributed yield; ²Closed to new accounts; ³Name changed to Premium Class shares (formerly AMT).

TAXABLE GOV'T MONEY MARKETS			Total Return (%)		SEC %Yield
			Nov	YTD	
55	FDRXX	Gov't Cash Reserves	0.27	1.02	3.33
458	SPAXX	Government MM	0.27	1.00	3.33
2742	FZFX	Treasury MM	0.27	1.02	3.38
415	FDLXX	Treasury Only MM (closed)	0.25	0.95	3.30
PRIME MONEY MARKETS					
454	SPRXX	Money Market	0.30	1.15	3.69
NOTE: SPRXX is available in premium class shares (ticker: FZDXX) with a \$100,000 minimum investment (\$10,000 for certain Fidelity retirement accounts and lower expenses).					

NATIONAL MUNICIPAL MONEY MKTS			Total Return (%)		SEC %Yield
			Nov	YTD	
10	FTEXX	Municipal Money Market	0.15	0.69	1.63
275	FMOXX	Tax-Exempt MM	0.14	0.63	1.52
STATE MUNICIPAL MONEY MARKETS					
433	FSAXX	Arizona Muni MM ¹	0.23	0.66	1.17
457	FSPXX	California Muni MM ²	0.14	0.69	1.48
418	FCMXX	Connecticut Muni MM ¹	0.12	0.61	1.32
426	FMSXX	Massachusetts Muni MM ²	0.14	0.66	1.76
420	FMIXX	Michigan Muni MM ¹	0.20	0.62	1.68
423	FSJXX	New Jersey Muni MM ²	0.14	0.70	1.56
422	FSNXX	New York Muni MM ²	0.15	0.72	1.59
419	FOMXX	Ohio Muni MM ¹	0.22	0.64	1.35
401	FPTXX	Pennsylvania Muni MM ¹	0.22	0.67	1.26

FIDELITY SCORECARD

NOVEMBER 30, 2022

Fund No.	Fund Ticker	Fund Name	Style	\$Price (NAV)	Advice	Total Return (%)			Avg Annual (%)				Rel Vol (Risk) ¹
						Nov	YTD	3 Mo.	1 Year	3 Year	5 Year	10 Year	
FIDELITY PERSONAL RETIREMENT ANNUITY PORTFOLIOS													
Model Portfolios	Annuity Sector Model					5.0	-17.5	2.5	-14.8	10.3	10.3	13.5	1.07
	Annuity Growth Model					5.4	-16.5	3.5	-13.8	11.8	11.2	12.0	1.08
	Annuity Growth & Income Model					4.6	-13.3	1.4	-11.4	7.4	7.1	8.1	0.69
	Annuity Income Model					4.0	-10.7	-0.6	-9.6	2.6	3.0	3.5	0.41
9067	FLRQC	Fid VIP Asset Manager	Allocation	24.50	Hold	5.4	-13.1	0.9	-11.4	3.6	4.1	5.7	0.61
9066	FAECC	Fid VIP Asset Manager: Growth	Allocation	27.18	Hold	6.6	-14.3	2.0	-12.0	5.4	5.3	7.3	0.77
9069	FJBAC	Fid VIP Balanced	Allocation	35.25	Buy	4.9	-14.6	1.3	-12.1	7.9	7.9	9.1	0.77
9461	FBIQC	Fid VIP Bond Index	Bond	10.07	Buy	3.6	-12.8	-2.1	-13.2	-3.0	--	--	0.28
9173	FVTAC	Fid VIP Communication Services	Sector	21.58	Buy	7.0	-33.6	-5.0	-31.6	1.8	5.7	7.7	1.14
9081	FVHAC	Fid VIP Consumer Discretionary	Sector	43.51	Buy	3.9	-27.7	-2.2	-27.5	6.2	8.4	11.5	1.27
9171	FCSAC	Fid VIP Consumer Staples	Sector	38.40	OK to Buy	7.0	1.8	7.1	13.4	9.8	7.8	9.7	0.84
9065	FPDFC	Fid VIP Contrafund	Large Growth	43.08	Buy	5.5	-22.0	2.5	-20.2	9.9	9.8	11.8	1.01
9148	FPRGC	Fid VIP Disciplined Small Cap	Small Blend	27.99	OK to Buy	3.6	-13.6	3.6	-10.9	7.7	5.5	9.5	1.22
9074	FZAMC	Fid VIP Dynamic Capital App	Large Growth	48.74	Hold	6.0	-16.6	1.5	-14.5	12.6	11.4	12.8	1.01
9198	FEMAC	Fid VIP Emerging Markets	Emg Mkts	12.60	OK to Sell	18.2	-19.6	1.3	-17.9	3.6	2.4	4.8	1.11
9085	FJLLC	Fid VIP Energy	Sector	23.65	OK to Sell	1.1	69.9	13.2	74.3	24.0	9.3	5.1	2.18
9061	FLOLC	Fid VIP Equity-Income	Large Value	32.97	Buy	5.8	-1.6	8.1	4.5	10.2	8.9	10.4	0.91
9469	FEMJC	Fid VIP Extended Market Index	Mid Blend	12.91	Buy	4.1	-13.2	3.5	-10.0	7.6	--	--	1.24
9083	FONNC	Fid VIP Financial Services	Sector	21.59	Buy	4.4	-2.9	8.3	1.2	9.9	8.1	11.8	1.31
9361	FFLCC	Fid VIP Floating Rate High Income	High-Yield Bond	12.82	OK to Buy	1.3	-1.0	0.2	-0.4	2.6	2.9	--	0.40
9157	FMPAC	Fid VIP FundsManager 20	Allocation	16.93	Hold	3.4	-8.7	-0.1	-7.9	0.9	2.1	2.8	0.31
9158	FMPBC	Fid VIP FundsManager 50	Allocation	21.99	Hold	5.5	-11.9	1.3	-10.0	3.9	4.3	5.8	0.59
9197	FMPCC	Fid VIP FundsManager 60	Allocation	21.70	Hold	6.2	-12.7	2.0	-10.4	4.8	4.9	6.8	0.68
9159	FMPDC	Fid VIP FundsManager 70	Allocation	24.91	Hold	6.7	-13.0	2.6	-10.3	5.7	5.6	7.7	0.76
9160	FMPDC	Fid VIP FundsManager 85	Allocation	26.88	Hold	7.6	-13.9	3.5	-10.5	7.0	6.5	9.1	0.89
9059	FTNJC	Fid VIP Gov't Money Market	Money Mkt	11.82	--	0.3	0.9	0.7	0.9	0.3	0.8	0.3	0.01
9062	FMNDC	Fid VIP Growth	Large Growth	53.96	Buy	5.2	-19.7	-0.1	-18.8	13.6	13.5	15.1	1.05
9070	FLFNC	Fid VIP Growth & Income	Large Blend	40.49	OK to Buy	6.0	-0.5	8.1	4.7	11.2	10.0	11.9	1.03
9068	FIDPC	Fid VIP Growth Opportunities	Large Growth	57.83	Buy	4.2	-32.4	-2.5	-33.2	9.2	15.1	15.8	1.33
9084	FPDRC	Fid VIP Health Care	Sector	66.16	Buy	3.8	-10.4	6.4	-5.0	8.1	10.4	14.9	0.86
9060	FBBLC	Fid VIP High Income	High-Yield Bond	21.86	Hold	1.7	-10.5	-0.1	-8.5	-0.9	1.2	3.0	0.54
9064	FXVLT	Fid VIP Index 500	Large Blend	44.30	OK to Buy	5.6	-13.4	3.5	-9.6	10.5	10.6	12.9	1.00
9082	FBALC	Fid VIP Industrials	Sector	45.62	Buy	6.0	-8.4	8.7	-3.9	6.4	5.7	10.2	1.21
9473	FFIQC	Fid VIP International Index	Diversified Int'l	10.65	OK to Buy	13.4	-14.3	5.9	-11.1	1.9	--	--	0.97
9076	FVJIC	Fid VIP Int'l Capital App	Diversified Int'l	25.54	Buy	13.1	-22.4	7.1	-20.3	3.1	4.5	7.8	1.05
9063	FTLKC	Fid VIP Investment Grade Bond	Inv Grd Bond	16.78	Buy	3.8	-12.6	-2.0	-12.8	-1.9	0.6	1.3	0.31
9172	FVMAC	Fid VIP Materials	Sector	30.71	OK to Buy	12.2	-5.1	10.9	2.5	16.3	6.1	7.8	1.19
9071	FNBSA	Fid VIP Mid Cap	Mid Blend	40.07	Buy	6.6	-10.6	6.2	-6.3	10.6	7.0	10.4	1.17
9088	FEMMC	Fid VIP Overseas	Diversified Int'l	21.04	OK to Buy	12.7	-22.4	7.9	-18.9	3.5	3.2	6.1	1.06
9072	FFWKC	Fid VIP Real Estate	Sector	26.47	Hold	6.8	-24.4	-5.5	-17.3	-1.1	2.3	5.6	1.06
9075	FGDQC	Fid VIP Strategic Income	High-Yield Bond	20.83	OK to Buy	3.2	-10.9	-0.5	-10.2	0.0	1.3	2.3	0.40
9086	FYENC	Fid VIP Technology	Sector	88.07	Buy	5.8	-29.9	-1.1	-28.5	15.4	15.1	17.8	1.29
9465	FTMJC	Fid VIP Total Market Index	Large Blend	15.12	Buy	5.2	-14.4	3.3	-11.1	9.8	--	--	1.03
9087	FXRRC	Fid VIP Utilities	Sector	44.63	Hold	6.9	5.8	-1.3	14.8	8.2	9.5	11.2	0.95
9079	FKMSC	Fid VIP Value	Large Value	36.50	OK to Buy	6.6	1.1	6.3	8.3	12.6	9.8	11.6	1.26
9073	FRBSC	Fid VIP Value Strategies	Mid Value	37.63	OK to Buy	6.2	-2.3	6.5	5.5	13.0	9.5	10.8	1.31
9347	FBMEC	Black Rock Global Allocation	Global Allocation	16.43	Hold	5.7	-14.0	1.7	-12.0	4.1	3.7	5.1	0.68
9349	FTMEC	Franklin Templeton Global Bond	Global Bond	9.47	Hold	5.6	-7.7	-0.2	-7.3	-5.5	-3.4	-1.1	0.30
9348	FMEEC	Franklin Templeton US Gov't	Intermed Gov't	10.03	Buy	3.2	-9.3	-2.0	-9.6	-2.8	-0.7	-0.1	0.22
9285	FIGXC	Invesco Global Core Eqty	Global Stock	16.13	Hold	9.8	-18.6	3.4	-14.4	3.4	2.8	6.3	1.03
9147	FPRLC	Lazard Retirement Emerging Mkts	Emg Mkts	15.99	OK to Sell	14.1	-12.8	3.2	-9.3	-0.9	-1.9	0.9	1.09
9143	FPRMC	Morgan Stanley Emerg Mkt Debt	Emg Mkt Bond	16.98	OK to Sell	9.4	-19.7	0.3	-18.3	-5.6	-2.6	-0.2	0.72
9144	FPRNC	Morgan Stanley Emerg Mkt Equity	Emg Mkts	14.32	OK to Sell	14.6	-22.3	4.3	-19.3	-0.8	-1.6	1.1	1.11
9146	FPRPC	Morgan Stanley Global Strategist	Diversified Int'l	15.64	Hold	7.6	-15.5	2.4	-13.4	1.4	2.3	4.3	0.76
9346	FPMEC	Pimco Commodity Real Return	Commodities	8.74	OK to Sell	2.7	11.4	-6.7	16.4	16.7	8.0	-1.8	1.05
9276	FPMBC	Pimco VIT Low Duration	Shrt-Term Bond	11.51	Buy	0.9	-6.3	-1.2	-6.4	-1.6	-0.2	0.1	0.11
9277	FPNBC	Pimco VIT Real Return	TIPS	14.43	OK to Sell	1.7	-11.4	-3.9	-11.0	1.5	2.0	0.7	0.35
9278	FPOBC	Pimco VIT Total Return	Intermed Bond	13.21	Hold	3.7	-14.5	-2.8	-14.5	-3.1	-0.3	0.7	0.30

Annuity Sector		Annuity Growth		Annuity Growth & Income		Annuity Income	
Fund	Allocation	Fund	Allocation	Fund	Allocation	Fund	Allocation
VIP Health Care	20%	VIP Mid-Cap	29%	VIP Bond Index	28%	VIP Bond Index	34%
VIP Technology	19	VIP Contrafund	22	VIP Equity-Income	23	Frkln Temp U.S. Gov't	25
VIP Financial Services	18	VIP Growth Opps	18	VIP Growth Opps	19	VIP Strategic Income	17
VIP Consumer Discret	16	VIP Equity-Income	18	VIP Strategic Income	15	VIP Mid-Cap	13
VIP Industrials	16	VIP Extended Mkt. Index	13	VIP Mid-Cap	15	VIP Growth	11
VIP Comm Services	11						
Total Return:		Total Return:		Total Return:		Total Return:	
Nov: 5.0% YTD: -17.5%		Nov: 5.4% YTD: -16.5%		Nov: 4.6% YTD: -13.3%		Nov: 4.0% YTD: -10.7%	

Jack's Message *cont'd from page 1*

in California. If all of today's internal combustion vehicles suddenly became BEVs (Battery Electric Vehicles), grid demand would jump about 25%. But it won't happen like that because it will take perhaps 40 years for transportation to go mostly electric. BEVs are currently just 6% of new car sales in the U.S., and the percentage of U.S. miles driven on electricity is currently less than 1%. Granted, that number will climb as fleets (including Uber and Lyft) go electric. But the resulting growth in grid demand is unlikely to be much greater than 1% per year because most fleets (and many BEV owners) will generate their own electricity using solar and batteries to save money where grid costs are excessive.

Fossil Fuels

Turning to oil and natural gas, neither will be going away any time soon, though global demand will top out around 2025-'30. Some state governments are trying to mandate an end to fossil fuel use, but those efforts would lay to waste huge in-

vestments in infrastructure and could weigh heavily on economic growth. Expect a more practical approach to prevail, one that allows fossil fuels to transition to synthetic e-fuels made from carbon-dioxide, water, and renewable electricity. Look for the airlines to get this ball rolling; some will pay a huge premium for e-fuel in order to brag that their flights are carbon-neutral.

For gasoline, diesel and natural gas, e-fuel blends would be the logical first step to allow the e-fuel infrastructure to scale up. Eventually, with the price of renewable electricity getting cheaper with each passing year, e-fuels could reach cost-parity and fully displace conventional fuels. At that point, energy companies would likely phase out their drilling operations and look to their e-fuel refineries as a dominant source of profits.

Assuming this scenario comes to pass, what are the long-term implications for today's energy stocks?

One analogy is that of telecom stocks 15 years ago. Back then, the sector had a tight grip on the data transmission market and could charge a premium for their ser-

VICES. But as technology advanced, data volumes grew and transmission costs fell. That put the telecoms in a position where their return on capital declined over time, causing the group to lag the S&P 500 by five percentage points annually over the last 15 years — which cut their market-weight by half.

Today's energy companies may face a similar conundrum. Slowly but surely, they are being undermined by the declining cost of renewable electricity. Sure, they are making lots of money today. But to remain viable in a low-carbon future they face a long period of heavy capital investment. And the returns earned on those future projects will probably pale in contrast to the return on today's exploration and development projects.

Action Recommendation

With all of this in mind, we continue to rate **Select Energy** and **Select Natural Resources** (and other funds with heavy oil and gas exposure) as *OK to Sell*. In other words, it's probably not a bad time to take some profits in the energy group. ■

— Jack Bowers

Fund Commentary *cont'd from page 5*

soared 7.3% versus a slightly less spectacular 6.7% for the large-cap, growth-oriented **OTC**.

For its part, **Low-Priced Stock** (up 6.6%) benefited from its mid-cap value positioning, its stake in homebuilders, plus its large foreign stock component.

International Funds

As noted on p. 4, there were some positive developments overseas last month, including an almost 9% drop in the price of oil. That's especially good news for Japan and other energy-poor countries, including Europe. In addition, the EU's most recent read on inflation shows some easing because of lower fuel prices. And with the EU and Britain

appearing to get their respective economic houses in order, strong gains abounded: **Europe** fund soared 12.8%, **Japan** gained 12.5% and **International Index** rose an even stronger 13.7%.

Most impressive was **China Region's** gain of 30.1%. Amid protests over Covid lockdowns, the government's financial support for its ailing property sector, plus Beijing's possible capitulation over its strident zero-Covid policy, propelled the volatile fund's advance.

Bond Funds

Optimism over the Fed's rate-setting strategy combined with improved inflation data triggered November's bond rally. As previously noted, the yield on the benchmark 10-year Treasury Note fell to 3.68%

from 4.14% a month earlier. (Bond prices move inversely to their yields.) On the other hand, yields on bonds maturing in a year or less saw their yields rise suggesting that investors see long-term inflation easing while the Fed keeps hiking the shorter-term rates it can better control. As such, **Long-Term Treasury Index** soared 7.1% in November while **Short-Term Treasury Index** enjoyed a tamer gain of 1.1%.

For its part, **U.S. Bond Index** (a proxy for the taxable market) rallied 3.8% while its tax-free counterpart, **Municipal Bond Index**, rallied 4.9% in November.

Lastly, the yield on Fidelity's prime **Money Market** fund has risen to 3.69%, up from 0.01% at the start of the year. ■

— John Bonnanzio

Inside Fidelity

Manager Change — John Roth's 12-year tenure at the helm of **Mid-Cap Stock** will end in December. (John is also stepping down from **New Millennium**, a "go-anywhere" fund whose investment "space" is large-cap blend.)

While John's departure from his funds has potential implications for several of our model portfolios (the *Unique Opportunities*, *Growth* and *G&I Models* have, respectively, 16%, 22% and 17% stakes in the fund), we're not especially concerned. That's because his co-manager, Nicola Stafford, has been instrumental in running Mid-Cap since 2016.

In fact, their working relationship goes much further back than that. Over two decades ago Roth, who graduated from the Sloan School of Management at MIT, was dispatched by Fidelity to recruit new investment talent. But instead of finding a fellow traveler from Sloan, he instead found an engineering student named Nicola Stafford.

Joining Fidelity's equity research department in 2001, she has never worked elsewhere. Five years later, she officially joined John as co-manager on Mid-Cap Stock where she has contributed to their handily outpacing their MidCap 400 benchmark. Moreover, in the past five years Mid-Cap ranks #65 in a field of 857 industry-wide peers.

Part of Nicola's investment strat-

DIVIDEND UPDATE

Other than monthly dividends on bond and money market funds, and Asset Mgr: 20%/30%, no funds paid dividends and/or capital gains in November. (Most funds are scheduled for payouts in December.)

egy has been to own non-benchmark names — a practice she's likely to continue.

That said, Nicola helps pick stocks for many other funds right now, including **Balanced** and several Stock Selector funds. It's our hope, and expectation, that Fidelity will soon announce her new co-manager once she assumes the lead manager role.

As for New Millennium, Dan Sherwood was named co-manager in October and will become its sole manager next year. Well known to John and Nicola for his work on other mid-cap portfolios, our *OK to Buy* rating is under review.

Disruptor/Megatrend Funds

Having failed to gain much investor interest since their launch about two years ago, Fidelity plans to convert six actively managed (thematic) Disruptor funds (shown on p. 8 of the *Scorecard*) into "transparent" exchange traded funds, or ETFs. With the move, the company's offerings of actively run equity ETFs

Year-end Distributions

Year-end distributions for Fidelity funds will start to occur as soon as December 9. To that end, we have estimated dollar amounts (and percentages of a fund's NAV as of Nov. 30) on our website.

If you hold funds in a **taxable account** only, this information will help you to avoid buying a potentially costly taxable distribution at year-end.

As mentioned last month, while there are a handful of funds with significant capital gains distributions in December, most are comparatively modest.

Go to: [fmandi.com](https://fidelity.com)

will rise to 15; its ETF lineup now consists of a mix of 51 offerings including index funds.

With the conversion scheduled to occur in June, the funds' unique "time-based pricing" plan should disappear in April with a lower fixed expense ratio of 0.50% to be implemented.

At this time, Fidelity has no plans to alter their **Agricultural Productivity** and **Water Sustainability** funds.

Crypto Battle —With last month's collapse of crypto currency exchange FTX fresh on their minds, three U.S. Senators have sent an open letter to Fidelity CEO and Chair, Abigail Johnson, imploring her to end the company's recent foray into offering Bitcoin in certain 401(k) retirement plans.

Equating crypto's dramatic crash in the past year to the subprime mortgage implosion of 2008, Sen. Elizabeth Warren plans to introduce regulatory legislation. It would give the SEC, CFTC and others oversight of digital currencies, of which there are now hundreds — if not thousands — from which to choose.

But if past is prologue, Ms. Johnson won't be backing down.

Speaking at a crypto conference in June, she said, "If you believe that the fundamentals of a long-term case are really strong, when everybody else is dipping [out], that's the time to double down and go extra hard into it."

Perhaps, but when it comes to investing, timing is everything. With Bitcoin down 33% for the year at the time of her remarks, that particular "currency" has since lost another 45% of its value, or 65% for the year-to-date. ■

— John Bonnanzio

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Editorial Questions: editorial@fmandi.com **Subscription Questions:** memberservices@fmandi.com or 800-444-6342